

	
<p>Webinar Title: “Fourier-Bessel Series Expansion and Its Applications in Signal Processing”</p>	

Registration Fee (including GST):- Rs. 1200.

Expert Speaker (Name/ Designation) – Prof. Ram Bilas Pachori

Webinar Date: 13th September, 2020 Time: 06 PM-08 PM (IST)

About Webinar (Brief One para): -

In signal processing, the Fourier transform is generally used for signal representation (or frequency-domain based analysis). The sinusoidal functions are used in the Fourier transform which are suitable for stationary signals. In addition, these sinusoidal functions are periodic in nature and contain positive and negative frequency components. Most of the real life signals are aperiodic and non-stationary in nature. Hence, the Fourier transform is not suitable method for such type of signals. In this webinar, the Fourier-Bessel series expansion (FBSE) based signal representation will be explained. The advantages of FBSE over Fourier transform based signal representation will be discussed. The various applications of FBSE in signal processing like speech signal processing, biomedical signal processing, and time-frequency representation will be provided. This webinar will also discuss about the possible applications of FBSE in different areas of science and technology.

Speaker Profile (Brief One Para):-

Dr. Ram Bilas Pachori has been working as a Professor since 2017 at IIT Indore. He was a Visiting Professor at School of Medicine, Faculty of Health and Medical Sciences, Taylor’s University, Subang Jaya, Malaysia during 2018- 2019. He worked as a Visiting Scholar at Intelligent Systems Research Center, Ulster University, Northern Ireland, UK during December 2014. He is an Associate Editor of Electronics Letters, Biomedical Signal Processing and Control journal and an Editor of IETE Technical Review journal. He is a senior member of IEEE (USA) and a Fellow of IETE (India) and IET (UK). He has more than 200 publications which include journal papers (117), conference papers (65), books (04), and book chapters (16). His publications have around 6400 citations, h index of 43, and i10 index of 102 (Google Scholar, August 2020). He has been listed in the top h index scientists in the area of Computer Science and Electronics by Guide2Research website. His area of research is Signal Processing and Machine Learning.